

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/009512

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H01L21/318 C25D9/04 C25D11/32 C25D11/26 C25D11/34

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01L C25D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, IBM-TDB, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>WO 99/34033 A (UNIVERSITY OF EDINBURGH; MOUNT, ANDREW, RAYMOND; PULHAM, COLIN, RICHAR) 8 July 1999 (1999-07-08) page 2, lines 1-9 page 2, line 31 - page 3, line 2 page 6, line 1 - page 7, line 17 page 10, lines 23-38 claim 1</p> <p style="text-align: center;">----- -/--</p>	1,2, 5-15,18

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

° Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

18 February 2005

Date of mailing of the international search report

07 04 2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Ekoué, A

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### Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1, 2, 5-15, 18

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1,2,5-15,18

A process for the production of a thin nitrogenous layer on a semiconductor surface or a metal surface.

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2. claims: 3,4,16,17

A process for detaching an oxygen-containing and/or nitrogenous layer on a semiconductor or metal surface.

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WANG H ET AL: "Amorphous carbon and carbon nitride films synthesized by electrolysis of nitrogen-containing liquid" DIAMOND AND RELATED MATERIALS, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 9, no. 7, July 2000 (2000-07), pages 1307-1311, XP004202091 ISSN: 0925-9635 abstract page 1308, left-hand column, lines 20-28 page 1310, right-hand column, lines 3-9	1,2,5, 8-10,14, 18
A	-----	6,7, 11-13,15
X	CHEMISTRY OF MATERIALS, AMERICAN CHEMICAL SOCIETY, WASHINGTON, US, vol. 3, no. 3, 1991, pages 768-771, XP002109532 ISSN: 0897-4756 the whole document	1,2, 5-10, 13-15,18
A	-----	11,12

# INTERNATIONAL SEARCH REPORT

Information on patent family members

Internal Application No

PCT/EP2004/009512

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
W0 9934033 A	08-07-1999	W0 9934033 A2	08-07-1999
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